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Exhibit A

(19) 日本国特許庁 (JP)

(12) 公開特許公報 (A)

(11) 特許出願公開番号

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特願平10-345499

(22) 出願日

平成10年12月4日 (1998.12.4)

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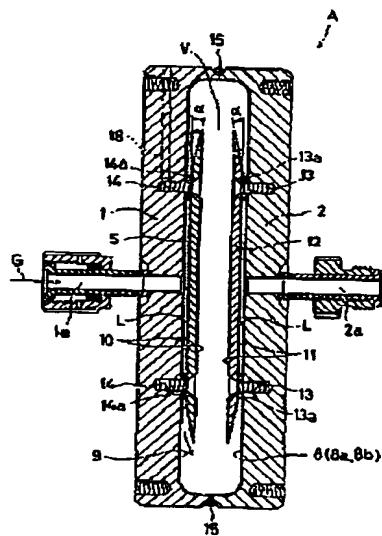
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(54) [発明の名称] 水分発生用反応炉

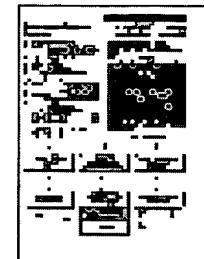
(57) [要約]

【課題】 水分発生用反応炉本体の内部に於ける水蒸ガスへの着火や燃焼の発生及び白金コーティング触媒層の剥離をより完全に防止して、水分発生用反応炉の安全性を一層高めると共に、反応炉本体の内部空間のデッドスペースを少なくして反応炉本体の一層の小型化を図る。

【解決手段】 ガス供給口を有する入口側炉本体部材と、水分ガス取出口を有する出口側炉本体部材と、前記入口側炉本体部材と出口側炉本体部材とを対向状態で組合せ接着して形成した反応炉本体の内部空間内にガス供給口と対向状態で配置した入口側反射体と、前記内部空間内に水分ガス取出口と対向状態で配置した出口側反射体と、前記出口側炉本体部材の内壁面に形成した白金コーティング触媒層とから形成され、ガス供給口から反応炉本体の内部空間内へ供給した水素と酸素を前記前記白金コーティング触媒に接触させてその反応性を活性化させることにより、水素と酸素を非燃焼の状態下で反応させて水を発生させる。



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Get Now: PDF | More choices...Tools: Add to Work File: View: INPADOC | Jump to: Top **>Title:** JP2000169109A2: REACTION FURNACE FOR GENERATING WATER**Country:** JP Japan**Kind:** A2 Document Laid open to Public inspection ⁱ**Inventor:**
OMI TADAHIRO;
IKEDA SHINICHI;
KAWADA KOJI;
MORIMOTO AKIHIRO;
MINAMI YUKIO;
MANOHARU L SHURESTA;
TSUBOTA KENJI;
MOTOIDEN AKIO;
HIRAI NOBORU;
KOMEHANA KATSUNORI;[View Image](#)

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Assignee: FUJIKIN INC
OMI TADAHIRO
[News, Profiles, Stocks and More about this company](#)**Published / Filed:** 2000-06-20 / 1998-12-04**Application Number:** JP1998000345499**IPC Code:** C01B 5/00; B01J 23/42; H01L 21/31; H01L 21/316;**Priority Number:** 1998-12-04 JP1998000345499**Abstract:** PROBLEM TO BE SOLVED: To improve the safety of a reaction furnace for generating water and to reduce the dead space in the inside space of the reaction furnace main body to miniaturize the reaction furnace main body by completely preventing the generation of ignition of hydrogen or backfire in the inside of a reaction furnace main body for generating water.

SOLUTION: The reaction furnace for generating water is constituted by an inlet side furnace main body member 1 having a gas supply port 1a, an outlet side furnace main body member having a water gas take-out port 2a, an inlet side reflection body 5 arranged to face a gas supply port in the inside space of reaction furnace main body formed by combining and welding the inlet side furnace main body member with the outlet side furnace main body member to face each other, an outlet side reflection body 6 arranged to face the water gas take-out port 2a in the inside space and a platinum coating catalytic layer 8 formed on the inside wall surface of the outlet side furnace main body member. Water is generated by the reaction of hydrogen with oxygen under a non-combustion condition by allowing hydrogen and oxygen supplied to the inside space of the reaction furnace main body from the gas supply port to contact with the platinum coating catalytic layer 8b to activate the reaction.

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Exhibit B

(19) 日本国特許庁 (JP)

(12) 公開特許公報 (A)

(11) 特許出願公開番号

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審査請求 未請求 超求項の数 6 OL (全 8 回)

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(22) 出願日	平成10年12月4日 (1998.12.4)	(71) 出願人	000205041 大見 康弘 宮城県仙台市青葉区米ヶ袋2-1-17-301
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		(74) 代理人	100082474 弁理士 杉本 丈夫

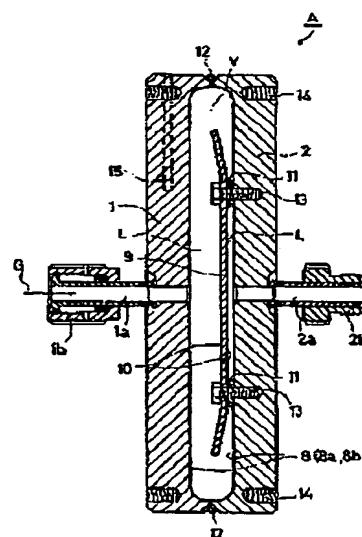
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(54) [発明の名稱] 水分発生用反応炉

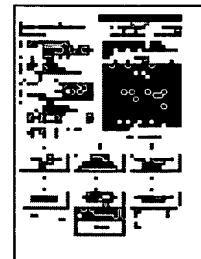
(57) 【要約】

【課題】 水分発生用反応炉本体の内部に於ける水素ガスへの着火や逆火の発生をより完全に防止して、水分発生用反応炉の安全性を一層高めると共に、反応炉本体の温度分布を均一化して白金コーティング触媒層の設置を少なくし、併せて反応炉本体の大軒な小形化を可能にする。

【解決手段】 ガス供給口を有する入口側炉本体部材と、水分ガス取出口を有する出口側炉本体部材と、前記両炉本体部材を組み合せして成る反応炉本体の内部空間内に設けた反射体と、入口側炉本体部材の内壁面及び出口側炉本体部材の内壁面に夫々形成した白金コーティング触媒層とから成り、ガス供給口から反応炉本体の内部空間内へ供給した水素と酸素を前記白金コーティング触媒層に接触させてその反応性を活性化させることにより、水素と酸素とを非燃焼の状態下で反応させて水を発生させる。



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Get Now: PDF | More choices...Tools: Add to Work File: Create new Work File GoView: INPADOC | Jump to: Top Email this to a friend**>Title:** JP2000169110A2: REACTION FURNACE FOR GENERATING WATER**Country:** JP Japan**Kind:** A2 Document Laid open to Public inspection ⁱ**Inventor:**
OMI TADAHIRO;
IKEDA SHINICHI;
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MINAMI YUKIO;
MANOHARUL SHURESTA;
TSUBOTA KENJI;
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Assignee:
FUJIKIN INC
OMI TADAHIRO
[News, Profiles, Stocks and More about this company](#)**Published / Filed:** 2000-06-20 / 1998-12-04**Application Number:** JP1998000345500**IPC Code:** C01B 5/00; B01J 19/00; B01J 23/42; H01L 21/31; H01L 21/316;**Priority Number:** 1998-12-04 JP1998000345500**Abstract:** PROBLEM TO BE SOLVED: To improve the safety of a reaction furnace for generating water and to unify the temp. distribution of the reaction furnace main body to decrease the stripping of a platinum coating catalytic layer and to remarkably miniaturize the reaction furnace main body by completely preventing the generation of ignition of hydrogen or backfire in the inside of a reaction furnace main body for generating water.

SOLUTION: The reaction furnace for generating water consists of an inlet side furnace main body member 1 having a gas supply port 1a, an outlet side furnace main body member having a water gas take-out port 2a, a reflection body 9 disposed in the inside space of the reaction furnace main body formed by combining both furnace main body members with each other and a platinum coating catalytic layer 8 formed respectively on the inside wall surface of the inlet side furnace main body member and the inside wall surface of the outlet side furnace main body member. Water is generated by the reaction of hydrogen with oxygen under a non-combustion condition by bringing hydrogen and oxygen supplied to the inside space of the reaction furnace main body from the gas supply port into contact with the platinum coating catalytic layer to activate the reaction.

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